ACK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACK1, Polyclonal Antibody
Full Product Name	ACK1, CT (Tyrosine Kinase Non-receptor Protein 2, Activated CDC42 Kinase 1, ACK-1, TNK2) (MaxLight 550)
Product Gene Name	anti-ACK1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human ACK1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	114,569 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (195590236..195635880, complement). Location: 3q29
OMIM	606994
3D Structure	ModBase 3D Structure for Q07912
Immunogen	KLH-conjugated synthetic peptide corresponding to a portion of amino acids within residues 939-969 in the C-terminal region of human ACK1.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-ACK1 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-ACK1 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-ACK1 antibody	IHC: 1:50-1:100 FLISA: 1:1000 WB: 1:10-1:50 Applications are based on unconjugated antibody.
Related Product Information for anti-ACK1 antibody	MBS6461069 is an antibody targeting ACK1. Also known as ACK1, CT (Tyrosine Kinase Non-receptor Protein 2, Activated CDC42 Kinase 1, ACK-1, TNK2) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ACK1 antibody	1. Yokoyama, N., et al., J. Biol. Chem. 278(48):47713-47723 (2003). 2. Manser, E., et al., Nature 363(6427):364-367 (1993).
Other Notes	Small volumes of anti-ACK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACK1. It may not necessarily be applicable to this product.

NCBI GI #	58331191
NCBI GeneID	10188
NCBI Accession #	NP_001010938.1
UniProt Primary Accession #	Q07912
UniProt Secondary Accession #	Q6ZMQ0; Q8N6U7; Q96H59
UniProt Related Accession #	Q07912
GenBank Nucleotide #	NM_001010938.1
NCBI Official Full Name	activated CDC42 kinase 1 isoform 2
NCBI Official Synonym Full Names	tyrosine kinase, non-receptor, 2
NCBI Official Symbol	TNK2
NCBI Official Synonym Symbols	ACK; ACK1; ACK-1; p21cdc42Hs
UniProt Protein Name	Activated CDC42 kinase 1
UniProt Synonym Protein Names	Tyrosine kinase non-receptor protein 2
Protein Family	Activator of C kinase protein
UniProt Gene Name	TNK2
UniProt Synonym Gene Names	ACK1; ACK-1
UniProt Entry Name	ACK1_HUMAN
NCBI Protein Information	activated CDC42 kinase 1; activated p21cdc42Hs kinase; activated Cdc42-associated kinase 1; tyrosine kinase non-receptor protein 2
NCBI Summary for ACK1	This gene encodes a tyrosine kinase that binds Cdc42Hs in its GTP-bound form and inhibits both the intrinsic and GTPase-activating protein (GAP)-stimulated GTPase activity of Cdc42Hs. This binding is mediated by a unique sequence of 47 amino acids C-terminal to an SH3 domain. The protein may be involved in a regulatory mechanism that sustains the GTP-bound active form of Cdc42Hs and which is directly linked to a tyrosine phosphorylation signal transduction pathway. Several alternatively spliced transcript variants have been identified from this gene, but the full-length nature of only two transcript variants has been determined. [provided by RefSeq, Jul 2008]

UniProt Comments for ACK1	Ack: a tyrosine kinase that binds Cdc42 in its GTP-bound form and inhibits both the intrinsic and GTPase-activating protein (GAP)-stimulated GTPase activity of Cdc42. This binding is mediated by a unique sequence of 47 amino acids C-terminal to an SH3 domain. May be involved in a regulatory mechanism that sustains the GTP-bound active form of Cdc42 and which is directly linked to a tyrosine phosphorylation signal transduction pathway. Amplification in primary tumors correlates with metastatic potential . Two differentially spliced isoforms have been described. Protein type: Protein kinase, TK; EC 2.7.11.1; Kinase, protein; EC 2.7.10.2; Protein kinase, tyrosine (non-receptor); TK group; Ack family Chromosomal Location of Human Ortholog: 3q29 Cellular Component: extrinsic to internal side of plasma membrane; adherens junction; growth cone; cytoplasmic vesicle membrane; cell soma; membrane; clathrin-coated vesicle; axon; cytoplasm; dendrite; plasma membrane; coated pit; nucleus; endosome Molecular Function: protein serine/threonine kinase activity; protein binding; metal ion binding; protein-tyrosine kinase activity; non-membrane spanning protein tyrosine kinase activity; protein serine/threonine/tyrosine kinase activity; WW domain binding; ATP binding; GTPase inhibitor activity; hormone receptor binding; epidermal growth factor receptor binding Biological Process: positive regulation of peptidyl-tyrosine phosphorylation; cell migration; cell surface receptor linked signal transduction; small GTPase mediated signal transduction; negative regulation of catalytic activity; innate immune response; endocytosis; cell differentiation; phosphorylation; transmembrane receptor protein tyrosine kinase signaling pathway; regulation of cell proliferation
Research Articles on ACK1	**1.** ACK1 directly binds and phosphorylates the Arp2/3 regulatory protein cortactin, potentially providing a direct link to Arp2/3-based actin dynamics during EGFR degradation.
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